AMERICAN VETERINARY MEDICAL ASSOCIATION

A3100-14 12/85

CARING FOR ANIMALS

# 1990 AVMA DIRECTORY

Published by

Division of Membership and Field Services

AMERICAN VETERINARY MEDICAL ASSOCIATION

930 NORTH MEACHAM ROAD • SCHAUMBURG, ILLINOIS 60196-1074

TELEPHONE: 1-800-248-2862

1-708-330-2862 (FAX)

EDITOR: Mrs. Jan LaFrana

PRICE . . . . . $60.00

— Prepaid — Check to accompany order —

Copyright 1990: by AMERICAN VETERINARY MEDICAL ASSOCIATION

ISSN: 0898-6657

# INDEX


Academies of Veterinary Medicine . . . . . 587

Accredited or Approved College of Veterinary Medicine, Essentials of An . . . . . 630

Advertisers, Index To . . . . . 733

Agriculture, U.S. Department of
- Food Safety and Inspection Service . . . . . 605
- Extension Service . . . . . 609
- Agricultural Research Service . . . . . 620
- Animal and Plant Health Inspection Service . . . . . 615
- Cooperative State Research Service . . . . . 619

Air Force, Department of The . . . . . 625

Alphabetic Directory of Veterinarians . . . . . 3

Animal Disease Control, Officials in Charge . . . . . 598

Appellate Procedures of the AVMA, General . . . . . 516

Army, Department of The . . . . . 625

Associations
- State and Local . . . . . 549
- National, Allied, and Specialty . . . . . 570
- Other National Organizations Related To Veterinary Medicine . . . . . 581
- Canadian . . . . . 569
- International . . . . . 576

Association of American Veterinary Medical Colleges, Officers . . . . . 647

AVMA Official Roster (1989-1990)
- Advisory Board on Veterinary Specialties . . . . . 478
- Advisory Committee To The House of Delegates . . . . . 475
- Animal Welfare Committee . . . . . 479
- Auxiliary Officers . . . . . 479
- Board of Governors . . . . . 475
- Board of Directors—AVMA Foundation . . . . . 477
- Board of Trustees—Group Health and Life Insurance Trust . . . . . 477
- Board of Trustees—Professional Liability Insurance Trust . . . . . 477
- Committee On Veterinary Technician Activties and Training . . . . . 477
- Committee on Human/Animal Bond . . . . . 479
- Committee on Impaired Veterinarians . . . . . 480
- Committee On Scientific Programs . . . . . 477
- Council on Biologic and Therapeutic Agents . . . . . 476
- Council on Education . . . . . 475
- Council on Public Health and Regulatory Veterinary Medicine . . . . . 476
- Council on Public Relations . . . . . 476
- Council on Research . . . . . 476
- Council on Veterinary Service . . . . . 476
- Drug Availability Advisory Committee . . . . . 480
- Educational Commission For Foreign Veterinary Graduates . . . . . 479
- Executive Board . . . . . 475
- Executive Staff, Headquarters . . . . . 480
- JAVMA Committee on Publications . . . . . 478
- Judicial Council . . . . . 475
- Mastitis Committee . . . . . 480
- National Board Examination Committee . . . . . 478
- Officers . . . . . 475
- Political Action Committee . . . . . 480
- Veterinary Technician Testing Committee . . . . . 479
- Washington Office . . . . . 480

Canadian Veterinary Services . . . . . 626

Classification of Colleges . . . . . 654

Colleges of Veterinary Medicine
- Abbreviations, Key to . . . . . 655
- Essential Requirements of an Accredited or Approved College of Veterinary Medicine . . . . . 630
- Former Veterinary Medical Educational Institutions in the United States . . . . . 648
- United States and Canada . . . . . 632
- World . . . . . 649

Constitution and Bylaws
- American Veterinary Medical Association . . . . . 496
- American Veterinary Medical Association Foundation . . . . . 507
- Auxiliary to the American Veterinary Medical Association . . . . 545

Continuing Education Materials . . . . . 727

Defense, U.S. Department of (See Army and the Air Force) . . . . 625

Degrees, Veterinary Medical . . . . . 654

Disciplinary Procedures of the AVMA, Rules of . . . . . 515

Drug Enforcement Administration (See U.S. Department of Justice) . . . . . 622

Ethics, Principles of Veterinary Medical . . . . . 510

Explanation of Codes and Key Numbers . . . . . BLUE INSERT

Films From The AVMA, Free Loan . . . . . C1

Foreword . . . . . ii

Geographic Directory of Veterinarians . . . . . 153

Guidelines, AVMA Policy Statements and
- Alternate Therapies . . . . . 518
- Animal Dentistry . . . . . 518
- Animal-Facilitated Therapy Programs . . . . . 518
- Animal Health Certificates . . . . . 519
- Animal Population Control and Ovariohysterectomy Clinics . . . . . 519
- Chemically Impaired Veterinarians, Veterinary Students, Animal Technicians and their Families, Model Program To Assist . . . . . 520
- Complaints About Veterinary Service . . . . . 522
- Continuing Education In Bovine Mastitis . . . . . 522
- Dangerous Animal Legislation . . . . . 522
- Embryo Transfer and the Practice of Veterinary Medicine . . . . 522
- Embryo Transplant Procedures . . . . . 523
- Emergency Veterinary Service . . . . . 523
- Employment and Partnership Contracts . . . . . 523
- Horseshow Veterinarians . . . . . 524
- Listeriosis, Management of Clinical . . . . . 525
- Memorandum of Understanding for Humane Organizations and Veterinarians . . . . . 525
- Minimal Standards of Performance For Practicing Veterinarians Who Offer Milk Quality Control Programs . . . . 526
- Peer Review Procedure Manual . . . . . 528
- Pet Health Insurance and Other 3rd Party Animal Health Plans . . . . . 533
- Pregnancy In The Workplace, Hazards To . . . . . 533
- Prescription Writing . . . . . 534
- Presigned Health Certificates . . . . . 534
- Referrals . . . . . 534
- Sodium Pentobarbital By Lay Persons, Use of . . . . . 534
- Standard Consent Form . . . . . 535
- State Committees Organized to Assist Impaired Veterinarians . . . . . 536
- Surgical Procedures For Nonveterinary Students . . . . . 539
- Tattoo Identification of Dogs and Cats That Have Been Spayed or Neutered . . . . . 539
- Veterinarians Participating in Ovariohysterectomy-Orchiectomy Clinics . . . . . 540
- Veterinary Associations and Veterinarians Working With Humane Organizations . . . . . 540

Veterinary Facilities, Naming of . . . . . 541
Veterinary Practice Facilities . . . . . 541
Veterinary Prescription Drugs, Supervising Use and Distribution of . . . . . 541
Volunteers In Veterinary Practice . . . . . 544
Wild or Exotic Animals As Pets . . . . . 544

Health and Human Services, U.S. Department of
Centers For Disease Control . . . . . 601
National Institutes of Health . . . . . 601
Food and Drug Administration . . . . . 604

House of Delegates (1989) . . . . . 481

Impaired Veterinarians, Model Program to Assist . . . . . 520

Interior, U.S. Department of . . . . . 625

Information Sources, Directory of . . . . . 719

Justice, U.S. Department of . . . . . 622

Liaison Representatives . . . . . 487

Libraries, Veterinary Medical . . . . . 719

Materials Available From The AVMA, Catalog of . . . . . 727

Meetings
Future (1990-1994) . . . . . 495
World Veterinary Congress . . . . . 495

Membership by Member Status and State . . . . . 489

Military Post Offices (APO & FPO) . . . . . 463

Officers, Student AVMA (1989-1990) . . . . . 480

Placement Service, AVMA . . . . . Inside Back Cover

Policy Statements and Guidelines of the AVMA (See Guidelines, AVMA Policy Statements and) . . . . . 518

Practice Act, Model . . . . . 704

Practice Acts, Digest of Veterinary . . . . . 708

Professional Activities Summary (Listed Veterinarians) . . . . . 490 and 491

Professional Activity Analysis (AVMA Members) . . . . . 488

Publications . . . . . 727

Public Health, Association of Schools of . . . . . 660

Public Health Veterinarians of the States and Territories . . . . . 596

Research Proposal Guidelines, AVMA Foundation . . . . . 509

Roster, AVMA (See AVMA Official Roster) . . . . . 475

Specialty Boards and Diplomates
American Board of Veterinary Practitioners . . . . . 669
American Board of Veterinary Toxicology . . . . . 671
American College of Laboratory Animal Medicine . . . . . 672
American College of Theriogenologists . . . . . 675
American College of Veterinary Anesthesiologists . . . . . 677
American College of Veterinary Dermatology . . . . . 678
American College of Veterinary Emergency and Critical Care . 679
American College of Veterinary Internal Medicine . . . . . 680
American College of Veterinary Microbiologists . . . . . 684
American College of Veterinary Nutrition . . . . . 685
American College of Veterinary Ophthalmologists . . . . . 686
American College of Veterinary Pathologists . . . . . 687
American College of Veterinary Preventive Medicine . . . . . 693
American College of Veterinary Radiology . . . . . 697
American College of Veterinary Surgeons . . . . . 699
American College of Zoological Medicine . . . . . 702
American Veterinary Dental College . . . . . 702

State Veterinary Boards . . . . . 708

State Meat Inspection, Officials in Charge . . . . . 593

State Veterinarians . . . . . 596

Statistics, Veterinary Economic . . . . . 492

Veterinary Practice Acts, Digests of . . . . . 708

U.S. Government Departments (See under department name)

Veterinary Science and Animal Pathology: Heads of Departments of Veterinary Science or Similar Departments in State Universities (Land Grant Colleges) . . . . . 659

Veterinary Technician Associations . . . . . 589

Veterinary Technology, General . . . . . 662

Veterinary Technology, Schools of . . . . . 664

Videotapes From The AVMA . . . . . C1

# Professional Activity Analysis
## AVMA Membership as of September 30, 1989

| | US & TERRITORIES | CANADA & FOREIGN | TOTALS |
|---|---|---|---|
| 10 Bovine Practice (exclusive) | 425 | 11 | 436 |
| 11 Equine Practice (exclusive) | 1,820 | 55 | 1,875 |
| 12 Porcine Practice (exclusive) | 65 | 1 | 66 |
| 13 Large Animal Practice (all species) | 1,456 | 47 | 1,503 |
| 14 Mixed Practice (predominantly large animal) | 4,341 | 74 | 4,415 |
| 15 Mixed Practice (50-50 Large & Small) | 3,230 | 26 | 3,256 |
| 16 Mixed Practice (predominantly small animal) | 5,105 | 39 | 5,144 |
| 17 Small Animal Practice (exclusive) | 19,832 | 157 | 19,989 |
| 18 Poultry Practice (exclusive) | 134 | 5 | 139 |
| 19 Feline Practice (exclusive) | 93 | 2 | 95 |
| *Sub Total* | 36,501 | 417 | 36,918 |
| 20 Anatomy | 85 | 5 | 90 |
| 21 Biochemistry | 14 | 0 | 14 |
| 22 Microbiology | 251 | 14 | 265 |
| 23 Parasitology | 70 | 2 | 72 |
| 24 Pathology | 863 | 26 | 889 |
| 25 Pharmacology | 81 | 5 | 86 |
| 26 Physiology | 107 | 2 | 109 |
| 27 Radiology | 124 | 7 | 131 |
| 28 Toxicology | 143 | 2 | 145 |
| 29 Surgery | 349 | 19 | 368 |
| 80 Pathology, Avian | 74 | 3 | 77 |
| 81 Pathology, Clinical | 130 | 5 | 135 |
| 82 Ophthalmology | 122 | 3 | 125 |
| 83 Nutrition | 58 | 0 | 58 |
| 84 Clinician | 326 | 13 | 339 |
| 85 Theriogenology | 130 | 12 | 142 |
| 86 Anesthesiology | 77 | 6 | 83 |
| 87 Internal Medicine | 177 | 7 | 184 |
| 88 Cardiology | 25 | 0 | 25 |
| 89 Dermatology | 55 | 0 | 55 |
| 90 Neurology | 23 | 2 | 25 |
| 91 Epidemiology | 72 | 3 | 75 |
| 92 Oncology | 29 | 0 | 29 |
| 93 Aquatic | 27 | 1 | 28 |
| 94 Avian Medicine | 102 | 0 | 102 |
| 95 Ethology | 4 | 0 | 4 |
| *Sub Total* | 3,518 | 137 | 3,655 |
| 30 Veterinary Public Health | 200 | 7 | 207 |
| 31 Veterinary Preventive Medicine | 60 | 6 | 66 |
| 32 Teaching and Research | 429 | 30 | 459 |
| 36 Regulatory Veterinary Medicine | 643 | 13 | 656 |
| 38 Administrative | 160 | 12 | 172 |
| 41 Laboratory Animal Medicine | 631 | 13 | 644 |
| 42 Wildlife, Zoo & Fur Bearing Animals | 203 | 6 | 209 |
| 43 Extension | 51 | 2 | 53 |
| 44 Diagnostic Veterinary Medicine | 162 | 4 | 166 |
| 45 Industrial Veterinary Medicine | 343 | 10 | 353 |
| 50 Military Veterinary Service | 400 | 1 | 401 |
| 55 Veterinary Technician Educator | 53 | 1 | 54 |
| 60 Other Veterinary Medicine | 403 | 15 | 418 |
| *Sub Total* | 3,738 | 120 | 3,858 |
| 70 Retired | 2,466 | 36 | 2,502 |
| 99 Unknown Professional Activity | 1,783 | 22 | 1,805 |
| **TOTALS** | **48,006** | **732** | **48,738** |

# AVMA Membership by Member Status by State
## (As of September 30, 1989)

| State/Province/Other | Active | Dues Exempt (Retired) | Honorary | Honor Roll | Affiliate | Dues Exempt (Hardship) | Associate | Total Members | Non-Member Veterinarian | Student |
|---|---|---|---|---|---|---|---|---|---|---|
| **UNITED STATES AND POSSESSIONS** | | | | | | | | | | |
| Alabama | 767 | 21 | 0 | 18 | 0 | 2 | 0 | 808 | 227 | 568 |
| Alaska | 110 | 1 | 0 | 0 | 0 | 0 | 0 | 111 | 19 | 0 |
| Arizona | 666 | 25 | 0 | 46 | 0 | 5 | 1 | 743 | 101 | 4 |
| Arkansas | 420 | 15 | 0 | 20 | 0 | 4 | 0 | 459 | 126 | 7 |
| California | 4,279 | 129 | 1 | 175 | 0 | 17 | 1 | 4,602 | 825 | 384 |
| Colorado | 1,085 | 31 | 1 | 40 | 0 | 5 | 1 | 1,163 | 199 | 495 |
| Connecticut | 522 | 11 | 0 | 28 | 0 | 1 | 0 | 562 | 54 | 11 |
| Deleware | 110 | 2 | 0 | 4 | 0 | 1 | 0 | 117 | 17 | 5 |
| District of Columbia | 74 | 2 | 0 | 2 | 0 | 0 | 0 | 78 | 22 | 0 |
| Florida | 2,262 | 92 | 2 | 118 | 0 | 8 | 3 | 2,485 | 376 | 255 |
| Georgia | 1,175 | 26 | 0 | 18 | 1 | 2 | 0 | 1,222 | 227 | 290 |
| Hawaii | 148 | 5 | 0 | 7 | 0 | 0 | 0 | 160 | 16 | 1 |
| Idaho | 288 | 10 | 0 | 15 | 0 | 2 | 0 | 315 | 72 | 24 |
| Illinois | 1,839 | 40 | 1 | 54 | 1 | 3 | 0 | 1,938 | 261 | 338 |
| Indiana | 1,058 | 45 | 0 | 36 | 0 | 3 | 1 | 1,143 | 193 | 212 |
| Iowa | 1,121 | 63 | 0 | 53 | 0 | 3 | 0 | 1,240 | 347 | 321 |
| Kansas | 871 | 23 | 0 | 31 | 0 | 6 | 0 | 931 | 212 | 380 |
| Kentucky | 717 | 14 | 0 | 19 | 1 | 2 | 0 | 753 | 89 | 10 |
| Louisiana | 700 | 8 | 0 | 12 | 0 | 3 | 0 | 723 | 123 | 265 |
| Maine | 237 | 5 | 0 | 7 | 0 | 2 | 0 | 251 | 26 | 2 |
| Maryland | 1,135 | 23 | 1 | 34 | 0 | 3 | 0 | 1,196 | 194 | 14 |
| Massachusetts | 897 | 10 | 0 | 19 | 0 | 3 | 2 | 931 | 106 | 264 |
| Michigan | 1,507 | 46 | 0 | 55 | 0 | 4 | 1 | 1,613 | 365 | 377 |
| Minnesota | 1,098 | 27 | 1 | 28 | 0 | 6 | 1 | 1,161 | 249 | 268 |
| Mississippi | 394 | 8 | 0 | 8 | 0 | 1 | 0 | 411 | 93 | 170 |
| Missouri | 1,082 | 38 | 0 | 36 | 1 | 9 | 0 | 1,166 | 243 | 250 |
| Montana | 277 | 9 | 0 | 9 | 0 | 1 | 0 | 296 | 64 | 3 |
| Nebraska | 520 | 15 | 1 | 17 | 0 | 3 | 0 | 556 | 118 | 3 |
| Nevada | 251 | 6 | 0 | 4 | 0 | 0 | 0 | 261 | 33 | 10 |
| New Hampshire | 250 | 6 | 0 | 9 | 1 | 0 | 0 | 266 | 24 | 8 |
| New Jersey | 1,069 | 11 | 0 | 43 | 0 | 2 | 0 | 1,125 | 145 | 35 |
| New Mexico | 341 | 6 | 0 | 8 | 0 | 2 | 0 | 357 | 56 | 4 |
| New York | 2,186 | 49 | 1 | 92 | 0 | 5 | 1 | 2,334 | 356 | 345 |
| North Carolina | 1,258 | 38 | 0 | 52 | 0 | 3 | 0 | 1,351 | 202 | 280 |
| North Dakota | 139 | 3 | 0 | 5 | 0 | 0 | 0 | 147 | 31 | 6 |
| Ohio | 1,689 | 51 | 0 | 63 | 1 | 3 | 3 | 1,810 | 332 | 486 |
| Oklahoma | 832 | 14 | 0 | 15 | 0 | 2 | 0 | 863 | 215 | 277 |
| Oregon | 631 | 18 | 0 | 27 | 0 | 1 | 0 | 677 | 162 | 108 |
| Pennsylvania | 1,742 | 38 | 0 | 66 | 2 | 5 | 0 | 1,853 | 285 | 436 |
| Rhode Island | 96 | 2 | 0 | 6 | 0 | 0 | 0 | 104 | 14 | 9 |
| South Carolina | 391 | 18 | 0 | 14 | 0 | 0 | 0 | 423 | 66 | 18 |
| South Dakota | 222 | 3 | 0 | 7 | 0 | 1 | 0 | 233 | 47 | 3 |
| Tennessee | 854 | 19 | 0 | 20 | 0 | 3 | 0 | 896 | 142 | 150 |
| Texas | 3,228 | 87 | 1 | 68 | 1 | 9 | 0 | 3,394 | 597 | 496 |
| Utah | 215 | 3 | 0 | 3 | 0 | 0 | 0 | 221 | 53 | 3 |
| Vermont | 174 | 5 | 0 | 8 | 0 | 0 | 0 | 187 | 30 | 6 |
| Virginia | 1,252 | 29 | 1 | 44 | 1 | 2 | 0 | 1,329 | 160 | 294 |
| Washington | 1,030 | 45 | 0 | 38 | 0 | 4 | 1 | 1,118 | 309 | 255 |
| West Virginia | 191 | 4 | 0 | 6 | 0 | 0 | 0 | 201 | 27 | 10 |
| Wisconsin | 1,261 | 38 | 1 | 28 | 0 | 4 | 2 | 1,334 | 263 | 295 |
| Wyoming | 151 | 2 | 0 | 3 | 0 | 0 | 0 | 156 | 43 | 2 |
| *Total U.S.* | 44,812 | 1,239 | 12 | 1,538 | 10 | 145 | 18 | 47,774 | 8,556 | 8,457 |
| **TOTAL U.S. AND POSSESSIONS** | **45,040** | **1,241** | **12** | **1,540** | **10** | **145** | **18** | **48,006** | **8,609** | **8,465** |
| **CANADA** | **141** | **20** | **0** | **9** | **0** | **1** | **332** | **503** | **2,976** | **1,048** |
| **OTHER COUNTRIES AND UNKNOWN** | **130** | **5** | **0** | **6** | **0** | **2** | **86** | **229** | **492** | **44** |
| **GRAND TOTALS** | **45,311** | **1,266** | **12** | **1,555** | **10** | **148** | **436** | **48,738** | **12,077** | **9,557** |

# NUMBER OF VETERINARIANS LISTED IN THE DIRECTORY

| | |
|---|---|
| **United States** | |
| Members | 47,740 |
| Non-Members | 2,857 |
| Total | 50,597 |
| **U.S. Territories** | |
| Members | 118 |
| Non-Members | 1 |
| Total | 119 |
| **Military Post Office** | |
| Members | 113 |
| Non-Members | 8 |
| Total | 121 |
| **Canada** | |
| Members | 504 |
| Non-Members | 444 |
| Total | 948 |
| **Other Countries** | |
| Members | 230 |
| Non-Members | 12 |
| Total | 242 |
| Grand Total | 52,027 |

## AVMA Professional Activities Summary of Veterinarians Listed in the Directory

The following statistics are based on the 1990 AVMA Directory and are not intended to reflect total veterinary population in the United States or any other country. The total number of veterinarians listed consists of all AVMA members as of September 30, 1989, and those nonmember veterinarians who responded to the 1990 DIRECTORY verification survey by that date.

| | |
|---|---|
| Total Veterinarians Listed | 52,027 |
| Large Animal | 4,054 |
| Mixed Practice | 13,420 |
| Small Animal | 20,721 |
| Preventive Medicine | 336 |
| Regulatory Veterinary Medicine | 968 |
| Military Veterinary Medicine | 426 |
| Other Classes | 10,245 |
| Unknown | 1,857 |

## Key to Abbreviations for Professional Classifications

The classifications below include the listed professional activities used in the 1990 DIRECTORY.

LA — Large Animal Practice
- 10 Bovine Practice (exclusive)
- 11 Equine Practice (exclusive)
- 12 Porcine Practice (exclusive)
- 13 Large Animal Practice (all species)

MP — Mixed Practice
- 14 Mixed Practice (predominantly Large Animal)
- 15 Mixed Practice (50-50 Large & Small)
- 16 Mixed Practice (predominantly Small Animal)

SA — Small Animal
- 17 Small Animal Practice (exclusive)
- 19 Feline (exclusive)

PM — Preventive Medicine
- 30 Veterinary Public Health
- 31 Veterinary Preventive Medicine

REG — Regulatory
- 36 Regulatory Veterinary Medicine

MVM — Military Veterinary Medicine
- 50 Military Veterinary Service

OC — Other Classes
- 18 Poultry (exclusive)
- 20 Anatomy
- 21 Biochemistry
- 22 Microbiology
- 23 Parasitology
- 24 Pathology
- 25 Pharmacology
- 26 Physiology
- 27 Radiology
- 28 Toxicology
- 29 Surgery
- 32 Teaching and Research
- 38 Administrative
- 41 Laboratory Animal Medicine
- 42 Wildlife, Zoo and Fur Bearing Animals
- 43 Extension
- 44 Diagnostic Veterinary Medicine
- 45 Industrial
- 55 Veterinary Technician Educator
- 60 Other Veterinary Medicine
- 70 Retired
- 80 Avian Pathology
- 81 Clinical Pathology
- 82 Ophthalmology
- 83 Nutrition
- 84 Clinician
- 85 Theriogenology
- 86 Anesthesiology
- 87 Internal Medicine
- 88 Cardiology
- 89 Dermatology
- 90 Neurology
- 91 Epidemiology
- 92 Oncology
- 93 Aquatic Animal Medicine
- 94 Avian Medicine
- 95 Ethology

# AVMA Professional Activities Summary of Veterinarians Listed In The Directory (As of September 30, 1989)



| STATE/PROVINCE/OTHER UNITED STATES OF AMERICA | LA | MP | SA | PM | REG | MVM | OC | UNK | TOTAL |
|---|---|---|---|---|---|---|---|---|---|
| **STATES & D.C.** | | | | | | | | | |
| Alabama | 36 | 254 | 286 | 8 | 27 | 10 | 230 | 27 | 878 |
| Alaska | 1 | 34 | 58 | 2 | 2 | 4 | 18 | 4 | 123 |
| Arizona | 70 | 113 | 409 | 1 | 13 | 3 | 140 | 33 | 782 |
| Arkansas | 31 | 192 | 132 | 2 | 29 | 3 | 108 | 13 | 510 |
| California | 528 | 577 | 2,531 | 30 | 47 | 28 | 929 | 173 | 4,843 |
| Colorado | 92 | 285 | 495 | 4 | 22 | 7 | 268 | 47 | 1,220 |
| Connecticut | 24 | 106 | 319 | 3 | 2 | 1 | 97 | 24 | 576 |
| Delaware | 16 | 22 | 41 | 0 | 1 | 1 | 39 | 5 | 125 |
| District of Columbia | 0 | 1 | 26 | 3 | 5 | 8 | 38 | 2 | 83 |
| Florida | 197 | 391 | 1,415 | 5 | 26 | 7 | 505 | 46 | 2,592 |
| Georgia | 40 | 331 | 507 | 18 | 31 | 14 | 292 | 64 | 1,297 |
| Hawaii | 5 | 21 | 84 | 3 | 6 | 4 | 34 | 3 | 160 |
| Idaho | 45 | 148 | 76 | 1 | 7 | 0 | 54 | 13 | 344 |
| Illinois | 123 | 497 | 986 | 7 | 29 | 3 | 337 | 33 | 2,015 |
| Indiana | 67 | 360 | 446 | 9 | 18 | 3 | 281 | 37 | 1,221 |
| Iowa | 97 | 632 | 151 | 8 | 49 | 3 | 357 | 70 | 1,367 |
| Kansas | 54 | 382 | 244 | 3 | 18 | 9 | 250 | 32 | 992 |
| Kentucky | 160 | 304 | 202 | 6 | 15 | 4 | 74 | 12 | 777 |
| Louisiana | 67 | 216 | 311 | 0 | 15 | 4 | 126 | 21 | 760 |
| Maine | 16 | 80 | 122 | 0 | 3 | 2 | 33 | 6 | 262 |
| Maryland | 86 | 155 | 467 | 24 | 78 | 81 | 338 | 30 | 1,259 |
| Massachusetts | 51 | 159 | 511 | 3 | 3 | 7 | 179 | 50 | 963 |
| Michigan | 86 | 390 | 806 | 3 | 22 | 2 | 377 | 60 | 1,746 |
| Minnesota | 130 | 452 | 337 | 7 | 25 | 3 | 260 | 42 | 1,256 |
| Mississippi | 17 | 182 | 118 | 3 | 16 | 5 | 86 | 10 | 437 |
| Missouri | 56 | 409 | 445 | 6 | 28 | 2 | 265 | 43 | 1,254 |
| Montana | 23 | 182 | 44 | 1 | 8 | 2 | 41 | 10 | 311 |
| Nebraska | 51 | 304 | 93 | 2 | 24 | 2 | 106 | 21 | 603 |
| Nevada | 19 | 46 | 152 | 1 | 3 | 1 | 32 | 19 | 273 |
| New Hampshire | 23 | 72 | 124 | 0 | 4 | 1 | 36 | 14 | 274 |
| New Jersey | 110 | 107 | 644 | 3 | 12 | 7 | 241 | 43 | 1,167 |
| New Mexico | 34 | 118 | 130 | 1 | 9 | 6 | 56 | 16 | 370 |
| New York | 222 | 464 | 1,177 | 8 | 24 | 4 | 450 | 90 | 2,439 |
| North Carolina | 66 | 342 | 557 | 14 | 28 | 9 | 359 | 53 | 1,428 |
| North Dakota | 13 | 87 | 18 | 0 | 8 | 2 | 23 | 6 | 157 |
| Ohio | 109 | 529 | 815 | 18 | 28 | 5 | 350 | 66 | 1,920 |
| Oklahoma | 90 | 356 | 285 | 5 | 18 | 3 | 128 | 36 | 921 |
| Oregon | 50 | 230 | 280 | 2 | 6 | 1 | 144 | 30 | 743 |
| Pennsylvania | 216 | 410 | 793 | 7 | 25 | 4 | 407 | 82 | 1,944 |
| Rhode Island | 6 | 18 | 61 | 1 | 0 | 0 | 17 | 6 | 109 |
| South Carolina | 21 | 125 | 202 | 2 | 6 | 4 | 67 | 13 | 440 |
| South Dakota | 21 | 156 | 19 | 0 | 9 | 2 | 33 | 5 | 245 |
| Tennessee | 35 | 336 | 369 | 3 | 15 | 0 | 155 | 26 | 939 |
| Texas | 184 | 1,147 | 1,391 | 50 | 59 | 54 | 564 | 137 | 3,586 |
| Utah | 21 | 86 | 89 | 1 | 9 | 1 | 44 | 9 | 240 |
| Vermont | 37 | 63 | 67 | 0 | 4 | 0 | 18 | 8 | 197 |
| Virginia | 107 | 268 | 602 | 17 | 46 | 22 | 270 | 62 | 1,394 |
| Washington | 111 | 287 | 482 | 4 | 11 | 5 | 270 | 61 | 1,231 |
| West Virginia | 14 | 100 | 61 | 1 | 8 | 0 | 22 | 5 | 211 |
| Wisconsin | 195 | 526 | 372 | 6 | 17 | 0 | 235 | 83 | 1,434 |
| Wyoming | 8 | 110 | 18 | 0 | 3 | 0 | 24 | 5 | 168 |
| Unknown | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 11 |
| *Total States & D.C.* | 3,881 | 13,142 | 20,370 | 306 | 921 | 353 | 9,807 | 1,817 | 50,597 |
| **Possessions** | | | | | | | | | |
| Canal Zone | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Puerto Rico | 8 | 30 | 41 | 1 | 11 | 0 | 15 | 0 | 106 |
| Virgin Islands | 0 | 3 | 5 | 0 | 0 | 0 | 0 | 0 | 8 |
| Pacific Islands | 0 | 1 | 2 | 0 | 1 | 0 | 1 | 0 | 5 |
| **TOTAL POSSESSIONS** | **8** | **34** | **48** | **1** | **12** | **0** | **16** | **0** | **119** |
| **APO & FPO ADDRESSES** | | | | | | | | | |
| APO-San Francisco | 0 | 4 | 5 | 1 | 0 | 17 | 0 | 0 | 27 |
| FPO-San Francisco | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 0 | 3 |
| APO-New York | 0 | 4 | 6 | 3 | 2 | 44 | 7 | 2 | 68 |
| FPO-New York | 0 | 1 | 1 | 0 | 0 | 3 | 0 | 0 | 5 |
| APO-Seattle | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| FPO-Seattle | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| APO-Miami | 0 | 2 | 1 | 0 | 4 | 6 | 1 | 0 | 14 |
| FPO-Miami | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| **TOTAL-APO & FPO** | **0** | **13** | **16** | **4** | **6** | **72** | **8** | **2** | **121** |
| **TOTAL U.S.A.** | **3,889** | **13,189** | **20,434** | **311** | **939** | **425** | **9,831** | **1,819** | **50,837** |
| **CANADA** | | | | | | | | | |
| Unknown | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Alberta | 18 | 43 | 17 | 2 | 1 | 0 | 26 | 2 | 109 |
| British Columbia | 15 | 24 | 45 | 1 | 1 | 0 | 19 | 1 | 106 |
| Manitoba | 3 | 13 | 10 | 0 | 3 | 0 | 8 | 0 | 37 |
| New Brunswick | 1 | 2 | 7 | 0 | 1 | 0 | 6 | 0 | 17 |
| Newfoundland | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Northwest Territory | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Nova Scotia | 3 | 6 | 5 | 0 | 1 | 0 | 6 | 0 | 21 |
| Ontario | 47 | 71 | 113 | 6 | 15 | 0 | 132 | 9 | 393 |
| Prince Edward Island | 7 | 3 | 6 | 0 | 0 | 0 | 20 | 2 | 38 |
| Quebec | 35 | 15 | 34 | 8 | 2 | 0 | 43 | 5 | 142 |
| Saskatchewan | 7 | 18 | 12 | 0 | 2 | 0 | 38 | 5 | 82 |
| Yukon Territory | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **TOTAL CANADA** | **137** | **195** | **249** | **17** | **26** | **0** | **298** | **26** | **948** |
| **OTHER FOREIGN COUNTRIES** | **28** | **36** | **38** | **8** | **3** | **1** | **118** | **12** | **242** |
| **GRAND TOTALS** | **4,054** | **13,420** | **20,721** | **336** | **968** | **426** | **10,245** | **1,857** | **52,027** |

# Veterinary Economic Statistics
## October, 1989
Data Compiled from AVMA Economic Surveys

## I. U.S. VETERINARIANS

| | Number of Veterinarians* | | | | Earnings, 1987 |
|---|---|---|---|---|---|
| | Total, 1989 | | Sex by % | | |
| | Estimated No. | % | Male | Female | Mean Individual Net Income Before Personal Taxes** |
| **Private Clinical Practice** | | | | | |
| Large animal exclusive | 2,074 | 5% | 94% | 6% | $54,659 |
| Large animal predominant | 4,328 | 12 | 93 | 9 | 46,149 |
| Mixed animal | 3,220 | 9 | 81 | 19 | 40,796 |
| Small animal predominant | 5,083 | 14 | 78 | 22 | 43,784 |
| Small animal exclusive | 19,865 | 55 | 71 | 29 | 46,866 |
| Equine predominant | 1,818 | 5 | 79 | 21 | 57,196 |
| Subtotal | 36,388 | 100% | 76% | 24% | $46,692 |
| **Public and Institutional Practice** | | | | | |
| College or university | 4,157 | 40% | 79% | 21% | $50,739 |
| Federal government | 2,258 | 21 | 86 | 14 | 45,477 |
| State and local government | 842 | 8 | 90 | 10 | 45,500 |
| Armed Forces | 588 | 6 | 90 | 10 | 43,365 |
| Industry and other | 2,655 | 25 | 83 | 17 | 61,249 |
| Subtotal | 10,500 | 100% | 83% | 17% | $51,995 |
| Grand Total | 46,888 | | 78% | 22% | $47,858 |

*Active AVMA members and verified nonmembers. **Excludes owner's economic return on equity in practice real estate.

## II. U.S. VETERINARY PRACTICES

| Type of Practice | Estimated number of veterinary practices (No.) | (%) | Mean number of veterinarians per practice | Mean gross practice revenue (1987) | Mean gross practice revenue per veterinarian (1987) | Mean total practice expenses (1987) | Mean net income to practice (1987) |
|---|---|---|---|---|---|---|---|
| Large animal exclusive | 1,000 | 5% | 2.1 | $292,940 | $138,261 | $173,729 | $119,210 |
| Large animal predominant | 1,800 | 9 | 2.5 | 374,053 | 147,676 | 244,433 | 129,620 |
| Mixed animal | 1,400 | 7 | 2.3 | 256,583 | 118,843 | 159,401 | 97,182 |
| Small animal predominant | 3,000 | 15 | 1.7 | 219,008 | 127,913 | 129,038 | 89,969 |
| Small animal exclusive | 11,800 | 59 | 1.7 | 255,215 | 149,313 | 154,889 | 100,325 |
| Equine predominant | 1,000 | 5 | 1.8 | 275,591 | 144,899 | 168,946 | 106,645 |
| TOTAL | 20,000 | 100% | 1.8 | $263,914 | $146,619 | $161,509 | 102,404 |

## III. VETERINARY SPECIALISTS

| | | |
|---|---|---|
| AVMA-recognized specialty boards and colleges | | 17 |
| Active, board-certified diplomates of record (1/1/89) | | 3,420 |
| **Membership:** | | |
| Anesthesiologists | | 72 |
| Dentistry | | 8 |
| Dermatologists | | 43 |
| Emergency and Critical Care | | 19 |
| Internal Medicine | | 427* |
| Cardiology | 50 | |
| Internal Medicine | 363 | |
| Neurology | 40 | |
| Oncology | 22 | |
| Laboratory Animal Medicine | | 357 |
| Microbiologists | | 161 |
| Virology | 4 | |
| Immunology | 3 | |
| Bacteriology/Mycology | 0 | |
| Nutrition | | 18 |
| Ophthalmologists | | 107 |
| Pathologists | | 864 |
| Practitioners | | 225 |
| Preventive Medicine | | 361 |
| Epidemiology | 34 | |
| Radiology | | 115 |
| Surgeons | | 357 |
| Theriogenologists | | 203 |
| Toxicology | | 61 |
| Zoological Medicine | | 22 |
| Total | | 3,420 |

* Some members belong to 2 specialties.

## IV. FIRST YEAR EMPLOYMENT

Distribution of 1989 U.S. Veterinary Graduates entering private practice according to salary

| | % |
|---|---|
| Less than $19,000 | 4.9 |
| $19,001 to $23,000 | 25.9 |
| $23,001 to $27,000 | 45.0 |
| $27,001 to $31,000 | 20.1 |
| More than $31,000 | 4.1 |
| | 100.0 |

First-Year Employment and Salaries of 1989 U.S. Veterinary Medical College Graduates

| | Employment by % | Mean first year salary* |
|---|---|---|
| Private clinical practice | | |
| Large animal exclusive | 2.3 | $25,210 |
| Large animal predominant | 10.7 | 26,663 |
| Mixed animal | 11.8 | 23,961 |
| Small animal predominant | 9.1 | 23,736 |
| Small animal exclusive | 39.1 | 24,834 |
| Equine predominant | 4.8 | 23,270 |
| Self-employed | 3.0 | 26,000 |
| Public institutional practice | | |
| University | 1.3 | 15,320 |
| Federal government | 0.8 | 23,301 |
| Military service | 1.0 | 31,275 |
| State/local government | 0.1 | 26,500 |
| Industry/commercial | 0.4 | 29,000 |
| Advanced study | 15.2 | 16,363 |
| Other | 0.5 | 25,637 |
| Total | 100.0 | |

Total 1989 U.S. Veterinary College Graduates ..... 2,148

* Mean 1987 individual net incomes for private practice owners with 5 and 10 years of experience since obtaining DVM degree are $42,848 and $52,393, respectively.

(CONTINUED NEXT PAGE)

## V. U.S. VETERINARY EDUCATION

27 Colleges of veterinary medicine

Enrollment, 1988-1989

| | No. | Pct. |
|---|---|---|
| Male | 3,649 | 43 |
| Female | 4,925 | 57 |
| Total | 8,574 | |

## VI. DEMAND FOR VETERINARY SERVICES

Companion animals, 1987

| | Dogs | Cats | Birds | Horses |
|---|---|---|---|---|
| % Households owning | 38% | 31% | 6% | 3% |
| # Households owning (millions) | 35 | 28 | 5 | 3 |
| Average # owned per household | 1.5 | 2.0 | 2.5 | 2.6 |
| % Households used veterinarians past 12 months | 78 | 60 | 8 | 47 |

Agricultural animals, 1985

| | Beef | Dairy | Swine | Sheep |
|---|---|---|---|---|
| % Producers using veterinarian | 71% | 99% (73% all producers) | 57% | 77% |
| Average annual expense with veterinarian | $315 | $1,090 ($522 all producers) | $524 | $310 |

## VII. MARKET FOR VETERINARY SERVICES

Animal Populations, 1987

| | (millions) |
|---|---|
| Dogs | 52 |
| Cats | 55 |
| Horses | 7 |
| Pet birds | 13 |
| Cattle and calves | 102 |
| Milk cows | 11 |
| Hogs and pigs | 54 |
| Sheep and lambs | 10 |
| Chickens (layers and others) | 378 |
| Broiler production | 5,003 |
| Turkey production | 240 |

Veterinary Medical Revenues, 1987

| | (millions) |
|---|---|
| Dogs | $3,010 |
| Cats | 1,570 |
| Horses | 330 |
| Birds/other pets | 72 |
| Livestock | 818 |
| Total market | $5,800 |

Veterinary Expenditures, 1987

Mean annual expenditures for veterinary products and services per animal-owning household

| Households owning: | |
|---|---|
| Dogs | $83 |
| Cats | 54 |
| Birds | 4 |
| Horses | 120 |